US ERA ARCHIVE DOCUMENT



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Chevron 5000 State Route 128 HOOVEN OH 45033

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

December 18, 2009

Project: Hooven Monthly Southwest Quad

Samples arrived at the laboratory on Tuesday, December 15, 2009. The PO# for this group is 0015039270 and the release number is 50008931. The group number for this submittal is 1175179.

Client Sample Description	<u>Lancaster Labs (LLI) #</u>
MW-133,121109 Grab Water Sample	5864331
MW-35,121109 Grab Water Sample	5864332
MW-138,121409 Grab Water Sample	5864333
MW-139,121409 Grab Water Sample	5864334
MW-142,121409 Grab Water Sample	5864335
Trip_Blank,121409 Water Sample	5864336

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Trihydro Corporation	Attn: Trihydro Database
ELECTRONIC	Trihydro Corporation	Attn: Tim Gunn
COPY TO ELECTRONIC	Trihydro Corporation	Attn: Matthew Mitchell
COPY TO		



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Questions? Contact your Client Services Representative Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,

Marla S. Lord Senior Specialist



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Page 1 of 1

Sample Description: MW-133,121109 Grab Water Sample

Monthly Southwest Quad

LLI Sample # WW 5864331 LLI Group # 1175179

OH

Project Name: Hooven Monthly Southwest Quad

Collected: 12/11/2009 10:10 by DB Account Number: 11494

Submitted: 12/15/2009 09:20 Chevron

Reported: 12/18/2009 at 12:31 5000 State Route 128

Discard: 02/17/2010 HOOVEN OH 45033

SQ133

Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Volatiles	SW-846 8260B	ug/l	ug/l	
Benzene	71-43-2	N.D.	0.5	1
Chlorobenzene	108-90-7	N.D.	0.8	1
Ethylbenzene	100-41-4	N.D.	0.8	1
Toluene	108-88-3	N.D.	0.7	1
Xylene (Total)	1330-20-7	N.D.	0.8	1
	Volatiles Benzene Chlorobenzene Ethylbenzene Toluene	Volatiles SW-846 8260B Benzene 71-43-2 Chlorobenzene 108-90-7 Ethylbenzene 100-41-4 Toluene 108-88-3	Volatiles SW-846 8260B ug/l Benzene 71-43-2 N.D. Chlorobenzene 108-90-7 N.D. Ethylbenzene 100-41-4 N.D. Toluene 108-88-3 N.D.	Analysis Name CAS Number As Received Result Method Detection Limit Volatiles SW-846 8260B ug/l ug/l Benzene 71-43-2 N.D. 0.5 Chlorobenzene 108-90-7 N.D. 0.8 Ethylbenzene 100-41-4 N.D. 0.8 Toluene 108-88-3 N.D. 0.7

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N093502AA	12/16/2009 18:20	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 18:20	Daniel H Heller	1



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Page 1 of 1

Sample Description: MW-35,121109 Grab Water Sample

Monthly Southwest Quad

LLI Sample # WW 5864332 LLI Group # 1175179

OH

Project Name: Hooven Monthly Southwest Quad

Collected: 12/11/2009 11:20 by DB Account Number: 11494

Submitted: 12/15/2009 09:20 Chevron

Reported: 12/18/2009 at 12:31 5000 State Route 128

Discard: 02/17/2010 HOOVEN OH 45033

SQ-35

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
06291	Benzene		71-43-2	N.D.	0.5	1
06291	Chlorobenzene		108-90-7	N.D.	0.8	1
06291	Ethylbenzene		100-41-4	N.D.	0.8	1
06291	Toluene		108-88-3	N.D.	0.7	1
06291	Xylene (Total)		1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N093502AA	12/16/2009 18:43	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 18:43	Daniel H Heller	1



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Page 1 of 1

Sample Description: MW-138,121409 Grab Water Sample

Monthly Southwest Quad

LLI Sample # WW 5864333 LLI Group # 1175179

OH

Project Name: Hooven Monthly Southwest Quad

Collected: 12/14/2009 10:25 by DB Account Number: 11494

Submitted: 12/15/2009 09:20 Chevron

Reported: 12/18/2009 at 12:31 5000 State Route 128

Discard: 02/17/2010 HOOVEN OH 45033

SQ138

Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Volatiles	SW-846 8260B	ug/l	ug/l	
Benzene	71-43-2	N.D.	0.5	1
Chlorobenzene	108-90-7	N.D.	0.8	1
Ethylbenzene	100-41-4	N.D.	0.8	1
Toluene	108-88-3	N.D.	0.7	1
Xylene (Total)	1330-20-7	N.D.	0.8	1
	Volatiles Benzene Chlorobenzene Ethylbenzene Toluene	Volatiles SW-846 8260B Benzene 71-43-2 Chlorobenzene 108-90-7 Ethylbenzene 100-41-4 Toluene 108-88-3	Volatiles SW-846 8260B ug/l Benzene 71-43-2 N.D. Chlorobenzene 108-90-7 N.D. Ethylbenzene 100-41-4 N.D. Toluene 108-88-3 N.D.	Analysis Name CAS Number As Received Result Method Detection Limit Volatiles SW-846 8260B ug/l ug/l Benzene 71-43-2 N.D. 0.5 Chlorobenzene 108-90-7 N.D. 0.8 Ethylbenzene 100-41-4 N.D. 0.8 Toluene 108-88-3 N.D. 0.7

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N093502AA	12/16/2009 19:06	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 19:06	Daniel H Heller	1



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Page 1 of 1

Sample Description: MW-139,121409 Grab Water Sample

Monthly Southwest Quad

LLI Sample # WW 5864334 LLI Group # 1175179

OH

Project Name: Hooven Monthly Southwest Quad

Collected: 12/14/2009 11:35 by DB Account Number: 11494

Submitted: 12/15/2009 09:20 Chevron

Reported: 12/18/2009 at 12:31 5000 State Route 128

Discard: 02/17/2010 HOOVEN OH 45033

SQ139

Analysis Name		CAS Number			1	Method	Dilution Factor
Volatiles	SW-846 826	0B	ug/l		ι	ıg/1	
Benzene		71-43-2	4	J	(0.5	1
Chlorobenzene		108-90-7	N.D.		(0.8	1
Ethylbenzene		100-41-4	N.D.		(0.8	1
Toluene		108-88-3	N.D.		(0.7	1
Xylene (Total)		1330-20-7	N.D.		(0.8	1
	Volatiles Benzene Chlorobenzene Ethylbenzene Toluene	Volatiles SW-846 8260 Benzene Chlorobenzene Ethylbenzene Toluene	Volatiles SW-846 8260B Benzene 71-43-2 Chlorobenzene 108-90-7 Ethylbenzene 100-41-4 Toluene 108-88-3	Volatiles SW-846 8260B ug/l Benzene 71-43-2 4 Chlorobenzene 108-90-7 N.D. Ethylbenzene 100-41-4 N.D. Toluene 108-88-3 N.D.	Volatiles SW-846 8260B ug/l Benzene 71-43-2 4 J Chlorobenzene 108-90-7 N.D. Ethylbenzene 100-41-4 N.D. Toluene 108-88-3 N.D.	Analysis Name CAS Number As Received Result Nolatiles SW-846 8260B Benzene 71-43-2 Chlorobenzene 108-90-7 Ethylbenzene 100-41-4 Toluene N.D. Onlower N.D. Onlower N.D. Onlower N.D. Onlower N.D. Onlower N.D.	Volatiles SW-846 8260B ug/l ug/l Benzene 71-43-2 4 J 0.5 Chlorobenzene 108-90-7 N.D. 0.8 Ethylbenzene 100-41-4 N.D. 0.8 Toluene 108-88-3 N.D. 0.7

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N093502AA	12/16/2009 19:29	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 19:29	Daniel H Heller	1



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Page 1 of 1

Sample Description: MW-142,121409 Grab Water Sample

Monthly Southwest Quad

LLI Sample # WW 5864335 LLI Group # 1175179

ОН

Project Name: Hooven Monthly Southwest Quad

Collected: 12/14/2009 12:40 by DB Account Number: 11494

Submitted: 12/15/2009 09:20 Chevron

Reported: 12/18/2009 at 12:31 5000 State Route 128

Discard: 02/17/2010 HOOVEN OH 45033

SQ142

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
06291	Benzene		71-43-2	35	0.5	1
06291	Chlorobenzene		108-90-7	N.D.	0.8	1
06291	Ethylbenzene		100-41-4	120	0.8	1
06291	Toluene		108-88-3	13	0.7	1
06291	Xylene (Total)		1330-20-7	130	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N093502AA	12/16/2009 19:53	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 19:53	Daniel H Heller	1



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Page 1 of 1

Sample Description: Trip Blank, 121409 Water Sample

Monthly Southwest Quad

LLI Sample # WW 5864336 LLI Group # 1175179

OH

Project Name: Hooven Monthly Southwest Quad

Collected: 12/14/2009 14:25 Account Number: 11494

Submitted: 12/15/2009 09:20 Chevron

Reported: 12/18/2009 at 12:31 5000 State Route 128

Discard: 02/17/2010 HOOVEN OH 45033

SWQTB

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
06291	Benzene		71-43-2	N.D.	0.5	1
06291	Chlorobenzene		108-90-7	N.D.	0.8	1
06291	Ethylbenzene		100-41-4	N.D.	0.8	1
06291	Toluene		108-88-3	N.D.	0.7	1
06291	Xylene (Total)		1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N093502AA	12/16/2009 13:43	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 13:43	Daniel H Heller	1



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Page 1 of 2

Quality Control Summary

Group Number: 1175179 Client Name: Chevron

Reported: 12/18/09 at 12:31 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: N093502AA	Sample nu	mber(s): 58	64331-5864	336				
Benzene	N.D.	0.5	ug/l	93	93	79-120	0	30
Chlorobenzene	N.D.	0.8	ug/l	95	96	80-120	2	30
Ethylbenzene	N.D.	0.8	uq/l	92	94	79-120	2	30
Toluene	N.D.	0.7	uq/l	93	94	79-120	2	30
Xylene (Total)	N.D.	0.8	ug/l	91	94	80-120	2	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS <u>%REC</u>	MSD MS/MSD <u>%REC Limits</u>		RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: N093502AA		number(s): 58643	· <u></u>					
Benzene	102	80-126						
Chlorobenzene	104	87-124						
Ethylbenzene	103	71-134						
Toluene	102	80-125						
Xylene (Total)	102	79-125						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL by 8260 (water)

Batch number: N093502AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5864331	99	104	101	90
5864332	99	103	101	90
5864333	100	105	102	92
5864334	98	104	101	92
5864335	97	101	103	99
5864336	97	101	100	91
Blank	97	102	100	90
LCS	98	106	103	100
LCSD	98	106	103	100
MS	97	101	104	101

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

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Page 2 of 2

Quality Control Summary

Client Name: Chevron Group Number: 1175179

Reported: 12/18/09 at 12:31 PM

Surrogate Quality Control

Limits: 80-116 77-113 80-113 78-113

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Analysis Request/ Environmental Services Chain

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MW-133 121109	12-11-29	1010	X		X		3	X								SEE ATTACE	TED	l
MW-133 121109 MW-35, 121109	12-11-09	1120	X		X		3	X								SEE ATTACE ANALYTE	L157	
MW-138 121409	1214-29	1015	X		X			X										
MW-139, 121409 MW-142, 121409 TRIP BLANK, 121409	1214.09	1135	X		x	-		K										
MW-142, 121409	12.14.09	1240	X		X	7	3 3	X										
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Analytical Requests for Groundwater Monthly Southwest Quad Chevron Cincinnati Facility, Hooven, Ohio

Volatile Organics Benzene

Benzene Chlorobenzene Ethylbenzene Toluene Xylenes (total)



Environmental Sample Administration Receipt Documentation Log

			Receibt no	cumentatioi	n Log		
Client/	Project:	Brevan		Shippin	g Contain	er Sealed: (YE	NO (E
Date o	f Receipt: _	12/15/09	<u> </u>	Custody	y Seal Pres	sent*: 🕅	∑S NO
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Entry

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	Ī	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

Inorganic Qualifiers

- ppb parts per billion
- **Dry weight**Besults printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

Α TIC is a possible aldol-condensation product Value is <CRDL, but ≥IDL В Ε Analyte was also detected in the blank Estimated due to interference С Pesticide result confirmed by GC/MS Duplicate injection precision not met M D Compound quatitated on a diluted sample Ν Spike amount not within control limits Ε Concentration exceeds the calibration range of S Method of standard additions (MSA) used the instrument for calculation J Estimated value U Compound was not detected Ν Presumptive evidence of a compound (TICs only) W Post digestion spike out of control limits Ρ Concentration difference between primary and Duplicate analysis not within control limits confirmation columns >25% Correlation coefficient for MSA < 0.995 U Compound was not detected X,Y,ZDefined in case narrative

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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